

File 347:JAPIO Oct 1976-2000/Jan(UPDATED 000611)

(c) 2000 JPO & JAPIO

*File 347: Display front page images using format 19. See HELP NEWS 347 for more information

Set	Items	Description
?s pn=jp	56146773	
S1	1	PN=JP 56146773
?t s1/9/1		

1/9/1
DIALOG(R)File 347:JAPIO
(c) 2000 JPO & JAPIO. All rts. reserv.

00826473 **Image available**
INK PRINTING DEVICE

PUB. NO.: 56-146773 A]
PUBLISHED: November 14, 1981 (19811114)
INVENTOR(s): MATSUI SADAYUKI
APPLICANT(s): MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 55-051137 [JP 8051137]
FILED: April 16, 1980 (19800416)
INTL CLASS: [3] B41J-003/04
JAPIO CLASS: 29.4 (PRECISION INSTRUMENTS -- Business Machines); 44.7 (COMMUNICATION -- Facsimile); 45.3 (INFORMATION PROCESSING -- Input Output Units)
JAPIO KEYWORD: R105 (INFORMATION PROCESSING -- Ink Jet Printers); R126 (CHEMISTRY -- Powdered Paints)
JOURNAL: Section: M, Section No. 113, Vol. 06, No. 29, Pg. 128, February 20, 1982 (19820220)

ABSTRACT

PURPOSE: To enable to effect low voltage control by a method wherein air stream is being injected into an air injecting port at all times during the device is being operated and ink is supplied into a communicating path due to the suction effect of an electrode in a nozzle body having a construction in which the air injecting port and an ink supplying port are communicated with each other.

CONSTITUTION: The nozzle body 100 consisting of an electrically insulating base and the like is formed with a nozzle orifice 1 as the ink jet port at one end face thereof while with the air injecting port 2 at the other end face thereof respectively. The port 2 and the orifice 1 are communicated by the communicating path 3 while the ink supplying port 4 is provided so as to intersect the communicating path 3 perpendicularly. The electrode 7, as an ink sucking means having a protecting layer 8 at the terminal surface thereof, is buried at the opposing position of the supplying port 4. A pulselike voltage is impressed between the electrode 7 and ink 12 to polarize the ink 12 which oozes out into the communicating path 3. Subsequently, an ink droplet is released from the orifice 1 by the air stream from the port 2 to effect printing. EFFECT: The constitution thereof is simple and the device may be miniaturized.